CLAIMS

Object with a surface that is easily cleanable as a result of being double-coated, with the outer coating containing a hydrophobic component capable of reacting with free -OH groups and the inner coating being an inorganic sol-gel coating, characterized in that the outer hydrophobic coating is applied to a very reactive inner sol-gel coating that has been only partly dried at a moderate temperature of at the most 100 °C and is chemically firmly anchored to it by condensation reactions, and only the double-coating system on the surface of the object is baked at a temperature above 50 °C.

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- 2. Process for preparing an object with an easily cleanable surface by double-coating comprising the steps of
 - applying an inner inorganic sol-gel coating directly to the surface of the object by a conventional process in a first step,
 - drying the inner sol-gel coating at a temperature between room temperature and 100 °C.
 - by a known process, applying to the reactive inner sol-gel coating in a second step an outer hydrophobic coating containing a component capable of reacting with free -OH groups, and
 - baking the double-coating system onto the surface of the object.
- 3. Process as defined in claim 2 whereby an inner sol-gel coating with a thickness of 10 nm to 1 μm is applied.
- 25 4. Process as defined in claim 2 or 3, whereby the inner sol-gel coating is applied by spraying or dipping.
 - 5. Process as defined in one of claims 2 to 4, whereby the sol-gel coating is dried within a time period of preferably < 6 h depending on the temperature used.

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6. Process as defined in one of claims 2 to 5, whereby the surface to be coated is first activated, for example by a physical method such as corona discharge, flame treatment, UV treatment or plasma activation and/or by a mechanical method such as roughening or sand-blasting and/or by a chemical method, such as etching or applying one or more suitable adhesion-promoting coatings from the gas phase or liquid phase.

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7. Process as defined in one of claims 2 to 5, whereby a perfluorinated silane or a sol-gel mixture with a perfluorinated silane is applied to the dried inner coating as the outer coating.

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8. Process as defined in claim 7, whereby the outer coating is applied by spraying.

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- 9. Process as defined in claim 4 and claim 8, whereby by controlling the flow time and drying time of the inner sol-gel coating the spraying parameters are adjusted so that both coatings are applied in a single spraying step.
 - 10. Process as defined in claim 9, whereby the hydrophobic solution for the outer coating is applied to the forming, highly reactive inner sol-gel coating.
- 10 11. Process as defined in one of claims 2 to 10, whereby the double-coating system is baked at 50-450 °C for 2 min to 2 hours.
- 12. Object as defined in claim 1 and prepared as defined in one of claims 1 to 11, **characterized in that** it consists of a ceramic material, for example tiles or sanitary ceramic products, or it consists of enamel such as, for example, baking oven muffles, of metals, for example alloyed steel, of a plastic material or of glass/glass-ceramics such as, for example, internal baking oven panes or transparent fireplace doors which are exposed to high temperatures and/or considerable soiling and must be cleaned all the time to enable them to function properly.